

**SIGNAL GROUND REFERENCE SUBSYSTEM CHECKLIST FOR EXISTING FACILITIES**

For use of this form, see TM 5-690; the proponent agency is COE.

1. FACILITY

2. DATE (YYYYMMDD)

3. LOCATION

4. INSPECTOR

5. SKETCH THE LAYOUT OF THE EXISTING SIGNAL GROUND REFERENCE SUBSYSTEM OR ATTACH AN UP-TO-DATE ENGINEERING DRAWING

6. VISUALLY INSPECT THE EXISTING SIGNAL GROUND REFERENCE SUBSYSTEM FOR SIGNS OF DETERIORATION, BURNING, CORROSION, OR DAMAGE. RECORD ALL DEFICIENCIES.

LOCATION	GROUND COMPONENTS	DEFICIENCIES

7. CHECK THE CONTINUITY OF THE GROUNDING CIRCUITS. CHECK ALL CONNECTORS, JOINTS, BONDS, AND FITTINGS FOR PROPER INSTALLATION, CRACKS, AND TIGHTNESS. RECORD ALL DEFICIENCIES.

LOCATION	DEFICIENCIES

8. MEASURE THE RESISTANCE BETWEEN CONNECTORS, JOINTS, BONDS, AND FITTINGS USING DOUBLE BALANCED DC BRIDGE. RECORD ALL MEASUREMENTS.

LOCATION	CONNECTIONS	RESISTANCE

9. MEASURE THE EARTH TO GROUND RESISTANCE OF THE SIGNAL GROUND REFERENCE SUBSYSTEM USING THE FALL OF POTENTIAL METHOD. RECORD THE MEASUREMENT.

RESISTANCE \_\_\_\_\_